



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 179 ENTRY YEAR: 2004

Compartment Acreage: 1643 County: ALGER

Revision Date: October 30, 2002

Stand Examiner: R. Tylka

Legal Description: T47N R17W Sections 21, 28 and 33

RMU (if applicable):

Management Goals: Timber management goals focus on managing upland deciduous forest types such as all-aged northern hardwoods and aspen, with emphasis on features such as species and size/age-class diversity, wildlife habitat, etc. The grassy openings and lowland forest types maintain variety in the ecosystem. Visual management is also an important consideration along the Highway H-15 travel corridor.

Soil and Topography: Varies from flat to short but relatively steep ridges

Ownership Patterns, Development, and Land Use in and Around the Compartment:

State forest lands surrounded by either state or private timber company lands in the neighboring compartments, with one parcel of Shelter Bay land included within the compartment boundary and one private residence across highway H-58.

Unique, Natural Features (include only non-site specific and non-sensitive information):

Star Creek flows through this compartment.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Fisheries Values

Good. The whole Star Creek system is considered SQCW, supporting a native brook trout population. It is not actively managed by Fisheries Division.

Wildlife Habitat Considerations: This compartment is located in the Grand Marias Sandy End Moraine Outwash sub-subsection. The average growing season is approximately 120 days. The extreme winter temperature generally reaches approximately -35° F. Snowfall in this compartment averages 200 inches or more annually.

General Land Office (GLO) Surveyor notes show a fairly even distribution of sugar maple, beech, yellow birch and balsam fir in the uplands. Hemlock, elm, ironwood, white pine, white birch, and red maple were also present in lesser amounts. Lowlands were dominated by cedar, but also contained black ash, tamarack, spruce and alder.

Windthrow and beaver ponding were likely the major forms of natural disturbance within the compartment. Current upland forests contain more aspen than was recorded in the GLO notes. Lowlands are similar in nature to pre-settlement conditions.

Wildlife habitat objectives are primarily associated with maintaining within and between stand structural and species diversity.

Gray wolves (Michigan threatened; Federal endangered) and moose (Michigan special concern) likely utilize the compartment, but no rare species have actually been recorded.

Other wildlife species of interest that may utilize this compartment include red-backed salamander, ring neck snake, American woodcock, American robin, snowshoe hare, and black bear.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of end moraine of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) Formation subcrops below the glacial drift. The PdC could be used for stone. The nearest gravel pit is several miles to the south, but there should be potential in the compartment. There is no commercial oil and gas production in the UP.

Vehicle Access:

County highway H-15 runs through this compartment.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The Sunrise Grade snowmobile trail runs through the south end of this compartment.

Fire Protection: This compartment is a mix of hardwoods, aspen and grasslands with numerous two-tracks and overgrown roads throughout. Several spots along two-tracks near Star Creek provide good access for water sources.

Additional Compartment Information:

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

ALGER COUNTY

COMPARTMENT: 179

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100- 109	110- 119	120- 129	130- 139	140- 149	150- 159	All Aged	Total
Aspen		64	105	79	106			10											364
Cedar										23		10							33
Grass	330																		330
LowInd Brush	1																		1
LowInd Poplr					31														31
Marsh	50																		50
Non Stocked	17																		17
Spruce Fir					3				11									4	18
Swamp Hrdwds																		88	88
Upland Hdwds				1														692	693
Water	18																		18
Total	416	64	105	80	140			10	11	23		10						784	1643

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

ALGER COUNTY

COMPARTMENT: 179

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	364																										364
C Cedar				33																							33
G Grass				330																							330
L Lowlnd Brush																									1		1
P Lowlnd Poplr										31																	31
N Marsh											50																50
X Non Stocked													17														17
F Spruce Fir																			18								18
E Swamp Hrdwds																			88								88
M Upland Hdwds																								693			693
Z Water																									18		18
Total	364			33	330					31	50		17						18	88				693	19		1643

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

ALGER COUNTY

COMPARTMENT: **179****Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	12348 Cds	Hardwood	1696 Cds
Hardwood	1233 Mbf	Hardwood	203 Mbf
Softwood	1990 Cds	Softwood	42 Cds
Softwood	247 Mbf	Sum CutVol	2144 Cds
Sum TotVol	17298 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	209
1643		Acres Meeting Silv Criteria.....	202
		Acres Not Meeting Silv Criteria.....	1441
Acres Unable to Determine Silv Criteria For.....			

SHINGLETON FOREST AREA

Proposed Treatments
With NO Limiting Factors

Compartment: 179 Entry Year: 2004

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
6	M6	5		53	northern hardwood	unevenaged	thinning	2		
comnts Fmd : Medium quality hardwood stand with paper and yellow birches scattered throughout. Thinning with emphasis on crop tree release and improving species diversity is recommended.										
14	M6	7		58	northern hardwood	unevenaged	thinning	2		
comnts Fmd : Medium quality hardwood stand. Thinning with emphasis on crop tree release and improving species diversity is recommended.										
18	M6	6		55	northern hardwood	unevenaged	selection	6		
comnts Fmd : Part of Rainbow Hardwoods T.S. - old stand number was 8.										
19	M9	7		58	northern hardwood	unevenaged	selection	2	planting	
comnts Fmd : Upland hardwood stand featuring good quality red maple. Thinning with emphasis on maintaining species diversity is recommended; do not cut hemlock, and favor keeping/releasing yellow birch. Mixed hardwood logs include a variety of species, with beech and cherry most common - favor retention for their value as mast trees. Underplant hemlock and white pine on any new roads built for the timber sale after the cutting is done.										
20	M6	4		50	northern hardwood	unevenaged	selection	2	planting	
comnts Fmd : Upland hardwood stand featuring good quality red maple. Thinning with emphasis on maintaining species diversity is recommended; do not cut hemlock, and favor keeping/releasing yellow birch. Mixed hardwood logs include a variety of species, with beech and cherry most common - favor retention for their value as mast trees. Underplant hemlock and white pine on any new roads built for the timber sale after the cutting is done.										
21	M6	7		50	northern hardwood	unevenaged	selection	2	planting	
comnts Fmd : Upland hardwood stand featuring good quality red maple. Thinning with emphasis on maintaining species diversity is recommended; do not cut hemlock, and favor keeping/releasing yellow birch. Mixed hardwood logs include a variety of species, with beech and cherry most common - favor retention for their value as mast trees. Underplant hemlock and white pine on any new roads built for the timber sale after the cutting is done.										
24	M6	1		55	northern hardwood	unevenaged	selection	6		
comnts Fmd : Part of Rainbow Hardwoods T.S. - old stand number was 8.										
26	M9	14		67	northern hardwood	unevenaged	selection	3		
comnts Fmd : Many large, high-quality logs available if access to the stand can be found - recommend following the ridge of higher ground through stands 19, 20 and 21 to reach this. Crossing through stand 22 will require freezing down a winter road. Mark this stand with emphasis on maintaining species diversity; do not cut hemlock, and favor keeping/releasing yellow birch. Also favor retention of some healthy cherry and beech for their value as mast trees. Underplant hemlock and white pine after the cutting is done, especially on any new roads built for the timber sale.										
50	A6	10	62	60	aspen (upland)	mature	final harvest	2	natural regeneration	
comnts Fmd : Large aspen on the gentler slope of a ridge - ready to cut, followed by TSI to ensure aspen regeneration. Retain some spruce (mature, if possible) for both aesthetics and diversity in the future stand.										
52	M6	3		52	northern hardwood	unevenaged	selection	2		
comnts Fmd : Recommend selection cutting with an emphasis on stand improvement , crop tree release, and maintaining diversity.										
54	M6	33		52	northern hardwood	unevenaged	selection	2		
comnts Fmd : Recommend selection cutting with an emphasis on crop tree release and improving diversity. There are a fair number of large diameter maples of poorer (pulp only) quality - keep enough to provide present/future wildlife trees.										
70	M9	91		63	northern hardwood	unevenaged	selection	1	planting	stand with fdf potential
comnts Fmd : FDF quality - Ready to cut - emphasis on improving the stand and releasing advanced regen. Use the following techniques to increase diversity: (1) Do not cut cherry or yellow birch; wherever possible, release healthy examples of both. (2) Underplant hemlock and white pine after cutting to re-establish these species in the stand.										
71	M6	21		55	northern hardwood	unevenaged	selection	1	planting	stand with fdf potential
comnts Fmd : FDF potential, in spite of the fact that this stand has a lot of larger diameter pulp - ready to select cut. Emphasize stand improvement, crop tree release and improving stand diversity. Use the following techniques to increase diversity: (1) Do not cut pulp-sized cherry or any yellow birch; wherever possible, release healthy examples of both. (2) Underplant hemlock and white pine after cutting to re-establish these species in the stand.										
Total Acres.....		209								

**Proposed Treatments
With Limiting Factors**

Compartment:

Entry Year:

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... None

COMPARTMENT 179
T47N R17W SECTIONS 21, 28 & 33
COUNTY: ALGER
UNIT: SHINGLETON
FOREST: LAKE SUPERIOR
YOE: 2004
ACRES: 1643
MAP REVISED: 10/30/02
STAND EXAMINER: R. TYLKA
1:24000

Legend

Harvest Types

No Harvest

Final Harvest

Seed Tree

Shelterwood-Seed

Thinning

Removal

Delayed Removal

Shelterwood - Prep

Selection

Roads

County Road

State/Federal Hwy

Street

Two-Track

Abandoned Road

Snowmobile trail

